

Yael-864HVT - Degassing System



The **Yael-864HVT** is a versatile high vacuum oven, which provides three main functions:

1. Heating the chamber
2. Pumping down the chamber (reducing the pressure into the chamber below atmosphere pressure).
3. Venting the chamber - raising the pressure into the vacuum chamber to Atmospheric Pressure.

Yael- 864HVT is a member of the known "**Yael**" family of vacuum ovens. The front panel is designed for easy operation and service and features a sliding drawer, which includes the electrical panel and instrumentation. A back door is provided for service access.

The vacuum chamber is made of stainless steel, cylindrical construction, electro polished and with two external heaters, for easy cleaning of the internal surface.

Two perforated horizontal shelves are mounted inside the vacuum chamber for components loading.

For safety reasons, the actual front door of the chamber has a floating mount. When using dry nitrogen for back filling of the chamber, the stainless steel door automatically relieves the pressure.

Two accessories ports QF NW16 are provided for future used, such as Mass Spectrometer. When not is used the ports should be blanked off. A third auxiliary port is provided for future rotary cage.

The uniform heating is achieved by heating at Atmospheric Pressure and than evacuating the chamber at low pressure by means of a turbo-molecular high vacuum pump. The roughing diaphragm pump permits oil less pumping.



A look inside

Technical Data

Ultimate pressure:	less than 1×10^{-6} Torr
Pump Down Time:	9×10^{-6} Torr in 30 min
Frame:	closed type, aluminum anodizes profiles
Roughing Vacuum pump:	
Model:	MV 2, oil less
Nominal pumping speed:	1.9 m ³ /hrs 0.7 mbar
Guaranteed ultimate pressure:	
Turbo-molecular Vacuum pump:	
Model:	SST 250
Nominal pumping speed, N2:	250 l/min 1.5×10^{-10} Torr
Guaranteed ultimate pressure:	
Chamber:	381 mm I.D. x 360mm Depth horizontal stainless steel cylinder, 40 liter volume
Heating Range:	up to 110°C and not less than ambient temperature
Requirements:	
Compressed air:	60 to 125 psig inlet pressure, filtered and dried
Vent gas (optionally):	Nitrogen, filtered and dried at 30 psig